

OIPE

#3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/997,807

DATE: 12/07/2001
TIME: 12:41:21

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\12072001\I997807.raw

4 <110> APPLICANT: Jay Short
5 Eric J. Mathur
6 W. Michael Lafferty
7 Nelson Barton
8 Kevin Chow
10 <120> TITLE OF INVENTION: Method of Making A Protein Polymer and
11 Uses of the Polymer
13 <130> FILE REFERENCE: DVSA-1005US
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/997,807
C--> 15 <141> CURRENT FILING DATE: 2001-11-30
15 <150> PRIOR APPLICATION NUMBER: 60/250,426
16 <151> PRIOR FILING DATE: 2000-11-30
18 <160> NUMBER OF SEQ ID NOS: 10
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 624
24 <212> TYPE: DNA
25 <213> ORGANISM: Pyrodictium abyssi
27 <400> SEQUENCE: 1
28 gtgaagtaca caacccttagc tatagcgggt attattgcct cggctgccgc cctcgccctc 60
29 ctagcaggct tcgccaccac ccagagcccc ctcaacagct tctacgccac cggtacagca 120
30 caggcagtaa gcgagccaat agacgttagaa agccacctcg gcagcataac cccgcagcc 180
31 ggcgcacagg gcagtgacga cataggttac gcaatagtgt ggataaaagga ccaggtcaat 240
32 gatgtaaagc tgaagggtac cctgcgttaac gctgagcagc taaagcccta cttcaagtac 300
33 ctacagatac agataacaag cggctatgag acgaacagca cagctctagg caacttcagc 360
34 gagaccaagg ctgtgataag cctcgacaaac cccagcgccg tgatagtaat agacaaggag 420
35 gatatagcag tgctctatcc ggacaagacc ggttacacaa acacttcgat atgggtaccc 480
36 ggtgaacctg acaagataat tgtctacaac gagacaagc cagtagctat actgaacttc 540
37 aaggccttct acgaggctaa ggagggtatg ctattcgaca gcctgccagt gatattcaac 600
38 ttccaggtgc tacaagttagg ctaa 624
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 207
42 <212> TYPE: PRT
43 <213> ORGANISM: Pyrodictium abyssi
45 <400> SEQUENCE: 2
46 Val Lys Tyr Thr Thr Leu Ala Ile Ala Gly Ile Ile Ala Ser Ala Ala
47 1 5 10 15
48 Ala Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Asn
49 20 25 30
50 Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
51 35 40 45
52 Val Glu Ser His Leu Gly Ser Ile Thr Pro Ala Ala Gly Ala Gln Gly
53 50 55 60
54 Ser Asp Asp Ile Gly Tyr Ala Ile Val Trp Ile Lys Asp Gln Val Asn
55 65 70 75 80
56 Asp Val Lys Leu Lys Val Thr Leu Arg Asn Ala Glu Gln Leu Lys Pro
57 85 90 95

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58 Tyr Phe Lys Tyr Leu Gln Ile Gln Ile Thr Ser Gly Tyr Glu Thr Asn
59 100 105 110
60 Ser Thr Ala Leu Gly Asn Phe Ser Glu Thr Lys Ala Val Ile Ser Leu
61 115 120 125
62 Asp Asn Pro Ser Ala Val Ile Val Leu Asp Lys Glu Asp Ile Ala Val
63 130 135 140
64 Leu Tyr Pro Asp Lys Thr Gly Tyr Thr Asn Thr Ser Ile Trp Val Pro
65 145 150 155 160
66 Gly Glu Pro Asp Lys Ile Ile Val Tyr Asn Glu Thr Lys Pro Val Ala
67 165 170 175
68 Ile Leu Asn Phe Lys Ala Phe Tyr Glu Ala Lys Glu Gly Met Leu Phe
69 180 185 190
70 Asp Ser Leu Pro Val Ile Phe Asn Phe Gln Val Leu Gln Val Gly
71 195 200 205
74 <210> SEQ ID NO: 3
75 <211> LENGTH: 513
76 <212> TYPE: DNA
77 <213> ORGANISM: Pyrodictium abyssi
79 <400> SEQUENCE: 3
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81 ctagcaggct tcgccaccac ccagagcccg ctcaacagct tctacgccac cggcacagca 120
82 gccgcaacaa gcgagccaat agacgttagag agccacctca gcagcatagc ccctgctgct 180
83 ggcgcacagg gcagccagga cataggctac ttcaacgtga cgcgcagga tcaagtgaac 240
84 gtgacaaaga taaagggtgac cctggctaac gctgagcagc taaagcccta cttcaagtac 300.
85 ctacagatag tgctaaagag cgaggttagct gacgagatca aggccgtaat aagcatagac 360
86 aagcctagcg ccgtcataat actagacagc caggactcg acagcaacaa cagagcaaag 420
87 ataagcgcca ctgcctacta cgaggctaaag gagggcatgc tattcgacag cctaccgcta 480
88 atattcaaca tacaggtgct aagcgtcagc taa 513
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 170
92 <212> TYPE: PRT
93 <213> ORGANISM: Pyrodictium abyssi
95 <400> SEQUENCE: 4
96 Val Lys Pro Thr Ala Leu Ala Gly Ile Ile Ala Ser Ala Ala
97 1 5 10 15
98 Asp Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Asn
99 20 25 30
100 Ser Phe Tyr Ala Thr Gly Thr Ala Ala Ala Thr Ser Glu Pro Ile Asp
101 35 40 45
102 Val Glu Ser His Leu Ser Ser Ile Ala Pro Ala Ala Gly Ala Gln Gly
103 50 55 60
104 Ser Gln Asp Ile Gly Tyr Phe Asn Val Thr Ala Lys Asp Gln Val Asn
105 65 70 75 80
106 Val Thr Lys Ile Lys Val Thr Leu Ala Asn Ala Glu Gln Leu Lys Pro
107 85 90 95
108 Tyr Phe Lys Tyr Leu Gln Ile Val Leu Lys Ser Glu Val Ala Asp Glu
109 100 105 110
110 Ile Lys Ala Val Ile Ser Ile Asp Lys Pro Ser Ala Val Ile Ile Leu
111 115 120 125

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112 Asp Ser Gln Asp Phe Asp Ser Asn Asn Arg Ala Lys Ile Ser Ala Thr
113 130 135 140
114 Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu Phe Asp Ser Leu Pro Leu
115 145 150 155 160
116 Ile Phe Asn Ile Gln Val Leu Ser Val Ser
117 165 170
120 <210> SEQ ID NO: 5
121 <211> LENGTH: 537
122 <212> TYPE: DNA
123 <213> ORGANISM: Pyrodictium abyssi
125 <400> SEQUENCE: 5
126 atgaggtaca cgacccttagc tctggccggc atagtggcct cggctgcgc cctcgccctg 60
127 ctagcaggct tcgcccacgac ccagagcccg ctaagcagct tctacgcac cggcacagca 120
128 caagcagtaa gcgagccaat agacgttagag agccacctag acaacaccat agcccctgct 180
129 gccggtgtcac agggctacaa ggacatgggc tacattaaga taactaaccat gtcaaaaagtt 240
130 aatgtataaa agctgaaggt gactctcgct aacgcccggc agctaaagcc ctacttcgac 300
131 tacctacagc tagtactcac aagcaacgcc actggcaccc acatggtaa ggctgtgcta 360
132 agcctcgaga agcctagcgc agtcataata ctagacaacg atgactacga tagcactaac 420
133 aagatacagc taaaggtaga agcctactat gaggctaagg agggcatgct attcgacagc 480
134 ctaccagtaa tactgaactt ccaggtactg agcggccgtt gcagtcctt gtggta 537
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 178
138 <212> TYPE: PRT
139 <213> ORGANISM: Pyrodictium abyssi
141 <400> SEQUENCE: 6
142 Met Arg Tyr Thr Thr Leu Ala Leu Ala Gly Ile Val Ala Ser Ala Ala
143 1 5 10 15
144 Ala Leu Ala Leu Leu Ala Gly Phe Ala Thr Thr Gln Ser Pro Leu Ser
145 20 25 30
146 Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
147 35 40 45
148 Val Glu Ser His Leu Asp Asn Thr Ile Ala Pro Ala Ala Gly Ala Gln
149 50 55 60
150 Gly Tyr Lys Asp Met Gly Tyr Ile Lys Ile Thr Asn Gln Ser Lys Val
151 65 70 75 80
152 Asn Val Ile Lys Leu Lys Val Thr Leu Ala Asn Ala Glu Gln Leu Lys
153 85 90 95
154 Pro Tyr Phe Asp Tyr Leu Gln Leu Val Leu Thr Ser Asn Ala Thr Gly
155 100 105 110
156 Thr Asp Met Val Lys Ala Val Leu Ser Leu Glu Lys Pro Ser Ala Val
157 115 120 125
158 Ile Ile Leu Asp Asn Asp Asp Tyr Asp Ser Thr Asn Lys Ile Gln Leu
159 130 135 140
160 Lys Val Glu Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu Phe Asp Ser
161 145 150 155 160
162 Leu Pro Val Ile Leu Asn Phe Gln Val Leu Ser Ala Ala Cys Ser Pro
163 165 170 175
164 Leu Trp
168 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING
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169 <211> LENGTH: 311
170 <212> TYPE: DNA
171 <213> ORGANISM: Pyrodictium abyssi
173 <400> SEQUENCE: 7
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175 ctcggtagcg taaatactgc cgctgggtgca caggtaagc agacgctagg agacataaca 120
176 atatatgcgc acaatgacgt gaacataaca aagctaaagg tcacgctgc taacgctgca 180
177 cagctaagac catacttcaa gtacctgata ataaagctag taaggcctgga cagcaacggc 240
178 aacgagtccg aggaaaaggg catgataact ctatggaagc cttacgcccgt gataatacta 300
179 gaccatgaag a 311
181 <210> SEQ ID NO: 8
182 <211> LENGTH: 130
183 <212> TYPE: PRT
184 <213> ORGANISM: Pyrodictium abyssi
186 <400> SEQUENCE: 8
187 Ser Phe Tyr Ala Thr Gly Thr Ala Gln Ala Val Ser Glu Pro Ile Asp
188 1 5 10 15
189 Val Val Ser Ser Leu Gly Thr Leu Asn Thr Ala Ala Gly Ala Gln Gly
190 20 25 30
191 Lys Gln Thr Leu Gly Asp Ile Thr Ile Tyr Ala His Asn Asp Val Asn
192 35 40 45
193 Ile Thr Lys Leu Lys Val Thr Leu Ala Asn Ala Ala Gln Leu Arg Pro
194 50 55 60
195 Tyr Phe Lys Tyr Leu Ile Ile Lys Leu Val Ser Leu Asp Ser Asn Gly
196 65 70 75 80
197 Asn Glu Ser Glu Glu Lys Gly Met Ile Thr Leu Trp Lys Pro Tyr Ala
198 85 90 95
199 Val Ile Ile Leu Asp His Glu Asp Phe Asn Asn Asp Ile Asp Gly Asp
200 100 105 110
201 Asn Gln Cys Gln Ile Asp Ala Thr Ala Tyr Tyr Glu Ala Lys Glu Gly
202 115 120 125
203 Met Leu
204 130
207 <210> SEQ ID NO: 9
208 <211> LENGTH: 372
209 <212> TYPE: DNA
210 <213> ORGANISM: Pyrodictium abyssi
212 <400> SEQUENCE: 9
213 agcttctacg ccaccggcac agcagaggca acaagcgagc caatagacgt tgtaagcaac 60
214 ctttaacacgg ccatagcccc tgctggggc gcccaggca gcgtgggcat aggtagcata 120
215 acaatagaga acaagactga cgtgaacgtt gtgaagctga agataaccct cgccaacgct 180
216 gagcagctaa agccctactt cgactaccta cagatagtgc taaagagcgt tgacagcaac 240
217 gagatcaagg ctgtgctaag cctcgagaag cccagcgcag tcataatact ggacaacgag 300
218 gacttccagg gcggcgacaa ccagtgcacat agacgcca cgcctacta cgaggctaaag 360
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221 <210> SEQ ID NO: 10
222 <211> LENGTH: 124
223 <212> TYPE: PRT
224 <213> ORGANISM: Pyrodictium abyssi

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226 <400> SEQUENCE: 10
227 Ser Phe Tyr Ala Thr Gly Thr Ala Glu Ala Thr Ser Glu Pro Ile Asp
228 1 5 10 15
229 Val Val Ser Asn Leu Asn Thr Ala Ile Ala Pro Ala Ala Gly Ala Gln
230 20 25 30
231 Gly Ser Val Gly Ile Gly Ser Ile Thr Ile Glu Asn Lys Thr Asp Val
232 35 40 45
233 Asn Val Val Lys Leu Lys Ile Thr Leu Ala Asn Ala Glu Gln Leu Lys
234 50 55 60
235 Pro Tyr Phe Asp Tyr Leu Gln Ile Val Leu Lys Ser Val Asp Ser Asn
236 65 70 75 80
237 Glu Ile Lys Ala Val Leu Ser Leu Glu Lys Pro Ser Ala Val Ile Ile
238 85 90 95
239 Leu Asp Asn Glu Asp Phe Gln Gly Gly Asp Asn Gln Cys Gln Ile Asp
240 100 105 110
241 Ala Thr Ala Tyr Tyr Glu Ala Lys Glu Gly Met Leu
242 115 120

VERIFICATION SUMMARY
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L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date